

The file CARD_97.DAT contains data from the 1997 follow-up (Cycle 5) examination that were used to perform the exposure analyses for the Cardiovascular chapter (Chapter 14 – 1997 follow-up report).

Variable	Column	Variable Type	Comment
SEQNO	1-5	Character	AFHS participant identification
HYPGP	6	Character	History of essential hypertension, verified by medical records [A = abnormal (yes); N = normal (no); ‘ ‘ = pre-SEA heart condition or pre-SEA essential hypertension]
HRTDGP	7	Character	History of heart disease excluding essential hypertension, verified by medical records [A = abnormal (yes); N = normal (no); ‘ ‘ = pre-SEA heart condition]
MIGP	8	Character	History of myocardial infarction, verified by medical records [A = abnormal (yes); N = normal (no)]
STISCGP	9	Character	History of stroke or transient ischemic attack, verified by medical records [A = abnormal (yes); N = normal (no)]
HYPI	10	Numeric	History of essential hypertension, verified by medical records [1 = normal (no); 2 = abnormal (yes); . = pre-SEA heart condition or pre-SEA essential hypertension]
HRTDI	11	Numeric	History of heart disease excluding essential hypertension, verified by medical records [1 = normal (no); 2 = abnormal (yes); . = pre-SEA heart condition]
MII	12	Numeric	History of myocardial infarction, verified by medical records [1 = normal (no); 2 = abnormal (yes)]
STISCI	13	Numeric	History of stroke or transient ischemic attack, verified by medical records [1 = normal (no); 2 = abnormal (yes)]
PSHYP	14	Character	Pre-Southeast Asia heart condition or pre-SEA essential hypertension, verified by medical records [Y = yes; N = no]
PSHRTD	15	Character	Pre-Southeast Asia heart condition, excluding essential hypertension, verified by medical records [Y = yes; N = no]
EXP GP	16-20	Character	Exposure group [a] RH = Ranch Hand; b) C = Comparison]
EXPI	21	Numeric	Exposure group [1 = Ranch Hand; 2 = Comparison]
BDATE	22-31	Character	Date of birth (month/day/year)
AGE	32-37	Numeric	Age at the 1997 physical exam (years)
AGEGP	38-51	Character	Age at the 1997 physical exam [1) BORN < 1942; 2) BORN >= 1942]
AGEI	52	Numeric	Age at the 1997 physical exam [1 = born before 1942; 2 = born in or after 1942]
RACEGP	53-57	Character	Race [1) BL = Black; 2) NB = non-Black]
RACEI	58	Numeric	Race [1 = Black; 2 = non-Black]
OCCGP	59-64	Character	Occupation [1) OFF = officer; 2) EFL = enlisted flyer; 3) EGC = enlisted groundcrew]
OCCI	65	Numeric	Occupation [1 = officer; 2 = enlisted flyer; 3 = enlisted groundcrew]
PERSGP	66-69	Character	Personality type from Jenkins Activity Survey (direction) [1) A; 2) B; ‘ ‘ = missing (refused or test not scorable)]
PERSI	70	Numeric	Personality type from Jenkins Activity Survey (direction) [1 = A; 2 = B; . = missing (refused or test not scorable)]
CURCIG	71-76	Numeric	Current cigarette smoking (cigarettes/day) [. = missing]
PCKYRS	77-83	Numeric	Lifetime cigarette smoking history (pack-years) [. = missing]
CURCIGGP	84-95	Character	Current cigarette smoking (cigarettes/day); [1) 0 – NEVER = never smoked; 2) 0 – FORMER = former smoker; 3) >0 – 20; 4) >20; ‘ ‘ = missing]
CURCIGI	96	Numeric	Current cigarette smoking (cigarettes/day); [1 = 0 (never smoked); 2 = 0 (former smoker); 3 = >0 – 20; 4 = >20; . = missing]
PCKYRSGP	97-106	Character	Lifetime cigarette smoking history (pack-years)[1) 0; 2) >0 – 10; 3) >10; ‘ ‘ = missing]

Variable	Column	Variable Type	Comment
PCKYRSI	107	Numeric	Lifetime cigarette smoking history (pack-years) [1 = 0; 2 = >0 – 10; 3 = >10; . = missing]
DRKYR	108-114	Numeric	Lifetime alcohol history (drink-years) [. = missing]
CALC	115-120	Numeric	Current alcohol use (drinks/day) [. = missing]
CALCGP	121-129	Character	Current alcohol use (drinks/day) [1] 0 – 1; 2) >1 – 4; 3) >4; ‘ ‘ = missing]
CALCI	130	Numeric	Current alcohol use (drinks/day) [1 = 0 – 1; 2 = >1 – 4; 3 = >4; . = missing]
DRKYRGP	131-140	Character	Lifetime alcohol history (drink-years) [1] 0; 2) >0 – 40; 3) >40; ‘ ‘ = missing]
DRKYRI	141	Numeric	Lifetime alcohol history (drink-years) [1 = 0; 2 = >0 – 40; 3 = >40; . = missing]
BFAT	142-147	Numeric	1997 body fat (percent)
BFATGP	148-161	Character	1997 body fat [1] OBESE (>25 percent); 2) LEAN/NORMAL (≤25 percent)]
BFATI	162	Numeric	1997 body fat [1 = obese (>25 percent); 2 = lean/normal (≤25 percent)]
CHOLGP	163-173	Character	Cholesterol (mg/dl) [1] ≤200; 2) >200-239; 3) ≥240]
CHOLI	174	Numeric	Cholesterol (mg/dl) [1 = ≤200; 2 = >200-239; 3 = ≥240]
CHOL	175-177	Numeric	Cholesterol (mg/dl)
HDL	178-180	Numeric	High density lipoprotein (HDL) (mg/dl) [. = missing]
HDLGP	181-191	Character	High density lipoprotein (HDL) [NORMAL: >35 (mg/dl); LOW: 0-35 (mg/dl); ‘ ‘ = missing]
HDLI	192	Numeric	High density lipoprotein (HDL) [1 = normal (>35 mg/dl); 2 = low (0-35 mg/dl); . = missing]
CHLRAT	193-209	Numeric	Cholesterol-HDL ratio [. = missing]
CHLRATGP	210-220	Character	Cholesterol-HDL ratio [NORMAL: ≤5; HIGH: >5; ‘ ‘ = missing]
CHLRATI	221	Numeric	Cholesterol-HDL ratio [1 = normal (≤5); 2 = high (>5); . = missing]
FAMHDSGP	222	Character	Family history of heart disease [N = no; Y = yes; ‘ ‘ = missing]
FAMHDSI	223	Numeric	Family history of heart disease [1 = no; 2 = yes; . = missing]
FHDB45GP	224	Character	Family history of heart disease before 45 [N = no; Y = yes; ‘ ‘ = missing]
FHDB45I	225	Numeric	Family history of heart disease before 45 [1 = no; 2 = yes; . = missing]
BPMEDGP	226	Character	Currently taking blood pressure medication [Y = yes; N = no]
BPMEDI	227	Numeric	Currently taking blood pressure medication [1 = yes; 2 = no]
DBCLSGP	228-238	Character	Diabetic class [1) NORMAL (2-hour postprandial glucose <140 mg/dl) ; 2) IMPAIRED (2-hour postprandial glucose >140-200 mg/dl); 3) DIABETIC (past history or 2-hour postprandial glucose ≥ 200 mg/dl); ‘ ‘ = unable to determine]
DBCLSI	239	Numeric	Diabetic class [1 = normal (2-hour postprandial glucose <140 mg/dl); 2 = impaired (2-hour postprandial glucose >140-200 mg/dl); 3 = diabetic (past history or 2-hour postprandial glucose ≥ 200 mg/dl); . = unable to determine]
ID	240	Character	Exposure group (for participants with a dioxin assay) [C = Comparison; R = Ranch Hand; ‘ ‘ = no dioxin assay]
REPORT	241-243	Character	Results of dioxin analysis (for participants with a dioxin assay and a good result) [G= good result; GND = good result, below limit of detection; ‘ ‘ = missing]
CURRENT	244-249	Numeric	1987 lipid-adjusted dioxin level (actual measurement or 1987 level extrapolated from dioxin measurement closest to time of duty in Southeast Asia - for participants with a dioxin assay and a good result) (parts per trillion (ppt)) [. = missing]
REPTYR	250-251	Character	Year from which assay is used for dioxin determination (for participants with a dioxin assay and a good result) [87 = 1987; 92 = 1992; 97 = 1997; P = pilot test (conducted in 1987) ; ‘ ‘ = missing]

Variable	Column	Variable Type	Comment
INITIAL	252-258	Numeric	Initial dioxin estimate (parts per trillion (ppt)), extrapolated from 1987 or recent lipid-weight dioxin measurement for Ranch Hands with a 1987 or recent measurement > 10 ppt [. = missing or not calculated]
LOGINIT	259-275	Numeric	Log (base 2) of initial dioxin for Ranch Hands with a 1987 or recent measurement > 10 ppt [. = missing or not calculated]
PBFDBDRW	276-290	Numeric	Body fat (percent) at time of dioxin blood draw for participants with a dioxin assay and a good result [. = missing]
LGINITGP	291-299	Character	Log (base 2) of initial dioxin for Ranch Hands with a 1987 or recent measurement > 10 ppt [1] LOW (initial dioxin: 27 - 63 ppt); 2) MEDIUM (initial dioxin: >63 – 152 ppt); 3) HIGH (initial dioxin: >152 ppt); ‘ ‘ = missing or not calculated]
LGINITI	300	Numeric	Log (base 2) of initial dioxin for Ranch Hands with a 1987 or recent measurement > 10 ppt [1 = low (initial dioxin: 27 - 63 ppt); 2 = medium (initial dioxin: >63 – 152 ppt); 3 = high (initial dioxin: >152 ppt); . = missing or not calculated]
DXCATGP	301-311	Character	Categorized dioxin [1] COMP<=10 (Comparisons: 1987 dioxin ≤ 10 ppt); 2) RH <=10 (background Ranch Hands: 1987 dioxin ≤ 10 ppt); 3) LOW RH (Ranch Hands: 1987 dioxin > 10 ppt and initial dioxin >10 - 94 ppt); 4) HIGH RH (Ranch Hands: 1987 dioxin >10 ppt and initial dioxin > 94 ppt); ‘ ‘ = missing or Comparisons with 1987 dioxin > 10 ppt]
DXCAT2GP	312-322	Character	Categorized dioxin [a] RH <=10 (background Ranch Hands: 1987 dioxin ≤ 10 ppt); b) LOW RH (Ranch Hands: 1987 dioxin > 10 ppt and initial dioxin >10 - 94 ppt); c) HIGH RH (Ranch Hands: 1987 dioxin >10 ppt and initial dioxin >94 ppt); d) COMP<=10 (Comparisons: 1987 dioxin ≤ 10 ppt); ‘ ‘ = missing or Comparisons with 1987 dioxin > 10 ppt]
DXCAT3GP	323-338	Character	Categorized dioxin [1] COMP<=10 (Comparisons: 1987 dioxin ≤ 10 ppt); 2) RH <=10 (background Ranch Hands: 1987 dioxin ≤ 10 ppt); 3) LOW + HIGH RH (Ranch Hands: 1987 dioxin > 10 ppt and initial dioxin > 10 ppt); ‘ ‘ = missing or Comparisons with 1987 dioxin > 10 ppt]
DXCATI	339	Numeric	Categorized dioxin [1 = Comparisons: 1987 dioxin ≤ 10 ppt; 2 = background Ranch Hands: 1987 dioxin ≤ 10 ppt; 3 = low Ranch Hands: 1987 dioxin > 10 ppt and initial dioxin >10 - 94 ppt; 4 = high Ranch Hands: 1987 dioxin >10 ppt and initial dioxin > 94 ppt; . = missing or Comparisons with 1987 dioxin > 10 ppt]
DXCAT2I	340	Numeric	Categorized dioxin [1 = background Ranch Hands: 1987 dioxin ≤ 10 ppt; 2 = low Ranch Hands: 1987 dioxin > 10 ppt and initial dioxin >10 – 94 ppt; 3 = high Ranch Hands: 1987 dioxin >10 ppt and initial dioxin >94 ppt; 4 = Comparisons: 1987 dioxin ≤ 10 ppt; . = missing or Comparisons with 1987 dioxin > 10 ppt]
DXCAT3I	341	Numeric	Categorized dioxin [1 = Comparisons: 1987 dioxin ≤ 10 ppt; 2 = background Ranch Hands: 1987 dioxin ≤ 10 ppt; 3 = low plus high Ranch Hands: 1987 dioxin > 10 ppt and initial dioxin > 10 ppt; . = missing or Comparisons with 1987 dioxin > 10 ppt]
LGCURRGP	342-350	Character	For Ranch Hands with a dioxin assay and a good result: [1] LOW (1987 dioxin: ≤ 7.9 ppt); 2) MEDIUM (1987 dioxin > 7.9 – 19.6 ppt); 3) HIGH (1987 dioxin > 19.6 ppt); ‘ ‘ = missing (includes Comparisons)]
LGCURRI	351	Numeric	For Ranch Hands with a dioxin assay and a good result: [1 = low (1987 dioxin: ≤ 7.9 ppt); 2 = medium (1987 dioxin: >7.9 – 19.6 ppt); 3 = high (1987 dioxin >19.6 ppt); . = missing (includes Comparisons)]
LOGCURR	352-367	Numeric	Log (base 2) of (1987 dioxin + 1) for Ranch Hands with a dioxin assay and a good result [. = missing (includes Comparisons)]
BFAT97	368-373	Numeric	1997 body fat (percent)
SYSTLIC	374-376	Numeric	Systolic blood pressure (mm Hg)

Variable	Column	Variable Type	Comment
SYSTLCGP	377	Character	Systolic blood pressure [A = abnormal (> 140 mm Hg); N = normal (≤ 140 mm Hg)]
SYSTLCI	378	Numeric	Systolic blood pressure [1 = normal (≤ 140 mm Hg); 2 = abnormal (> 140 mm Hg)]
DIASTLC	379-381	Numeric	Diastolic blood pressure (mm Hg)
DIASTLGP	382	Character	Diastolic blood pressure [A = abnormal (> 90 mm Hg); N = normal (≤ 90 mm Hg)]
DIASTLI	383	Numeric	Diastolic blood pressure [1 = normal (≤ 90 mm Hg); 2 = abnormal (> 90 mm Hg)]
HRTSNDGP	384	Character	Heart sounds [A = abnormal; N = normal]
ECGGP	385	Character	Overall electrocardiograph [A = abnormal; N = normal]
STTGP	386	Character	ECG: Nonspecific ST- and T-wave changes [A = abnormal; N = normal]
BRADYGP	387	Character	ECG: Bradycardia [A = abnormal; N = normal]
TACHYGP	388	Character	ECG: Tachycardia [A = abnormal; N = normal]
ARRHMGMP	389	Character	ECG: Arrhythmia [A = abnormal; N = normal]
PRIORGP	390	Character	ECG: Evidence of prior myocardial infarction [A = abnormal; N = normal]
HRTSNDI	391	Numeric	Heart sounds [1 = normal; 2 = abnormal]
ECGI	392	Numeric	Overall electrocardiograph [1 = normal; 2 = abnormal]
STTI	393	Numeric	ECG: Nonspecific ST- and T-wave changes [1 = normal; 2 = abnormal]
BRADYI	394	Numeric	ECG: Bradycardia [1 = normal; 2 = abnormal]
TACHYI	395	Numeric	ECG: Tachycardia [1 = normal; 2 = abnormal]
ARRHMI	396	Numeric	ECG: Arrhythmia [1 = normal; 2 = abnormal]
PRIORI	397	Numeric	ECG: Evidence of prior myocardial infarction [1 = normal; 2 = abnormal]
LBBBGP	398	Character	ECG: Left bundle branch block [A = abnormal; N = normal]
LBBBI	399	Numeric	ECG: Left bundle branch block [1 = normal; 2 = abnormal]
RBBBGP	400	Character	ECG: Right bundle branch block [A = abnormal; N = normal]
RBBBI	401	Numeric	ECG: Right bundle branch block [1 = normal; 2 = abnormal]
OTHERGP	402	Character	ECG: Other diagnoses [A = abnormal; N = normal]
OTHERI	403	Numeric	ECG: Other diagnoses [1 = normal; 2 = abnormal]
FUNDEXGP	404	Character	Funduscopy exam [A = abnormal; N = normal; ‘ ‘ = missing]
FUNDEXI	405	Numeric	Funduscopy exam [1 = normal; 2 = abnormal; . = missing]
CRTDBGP	406	Character	Carotid bruits [A = abnormal; N = normal]
CRTDBI	407	Numeric	Carotid bruits [1 = normal; 2 = abnormal]
RADIALGP	408	Character	Radial pulses [A = abnormal; N = normal]
FEMRALGP	409	Character	Femoral pulses [A = abnormal; N = normal; ‘ ‘ = missing]
POPLITGP	410	Character	Popliteal pulses [A = abnormal; N = normal; ‘ ‘ = missing]
DPEDISGP	411	Character	Dorsalis pedis pulses [A = abnormal; N = normal; ‘ ‘ = missing]
PTIBIAGP	412	Character	Posterior tibial pulses [A = abnormal; N = normal; ‘ ‘ = missing]
RADIALI	413	Numeric	Radial pulses [1 = normal; 2 = abnormal]
FEMRALI	414	Numeric	Femoral pulses [1 = normal; 2 = abnormal; . = missing]
POPLITI	415	Numeric	Popliteal pulses [1 = normal; 2 = abnormal; . = missing]
DPEDISI	416	Numeric	Dorsalis pedis pulses [1 = normal; 2 = abnormal; . = missing]
PTIBIAI	417	Numeric	Posterior tibial pulses [1 = normal; 2 = abnormal; . = missing]
LEGPULGP	418	Character	Leg pulses [A = abnormal; N = normal; ‘ ‘ = missing]
LEGPULI	419	Numeric	Leg pulses [1 = normal; 2 = abnormal; . = missing]
PERPULGP	420	Character	Peripheral pulses [A = abnormal; N = normal; ‘ ‘ = missing]
PERPULI	421	Numeric	Peripheral pulses [1 = normal; 2 = abnormal; . = missing]

Variable	Column	Variable Type	Comment
CLDVASGP	422	Character	Intermittent claudication and vascular insufficiency index [A = abnormal; N = normal; ' ' = missing]
CLDVASI	423	Numeric	Intermittent claudication and vascular insufficiency index [1 = normal; 2 = abnormal; . = missing]